springcard

K531-232

OEM CONTACTLESS MODULE READER/WRITER WITH ANTENNA RS232

Ready-to-use ISO/IEC 14443-A/B reader / writer with antenna RS-232 link (+/- 10V) that can be embedded in virtually any kind of appliance

KEY FEATURES

K531-232 is dedicated to integrators who need to work with any ISO 14443-A/B cards such as Mifare, DESFire, Calypso and more.

Thanks to its asynchronous serial communication interface, K531-232 is really easy to operate from any microcontroller or host computer.

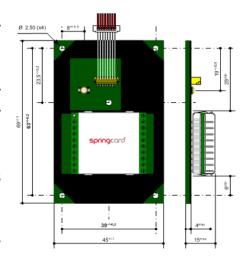
K531-232 has many features that make it the only product on the market to provide such flexibily at low cost.

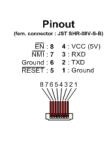
- Metallic bonnets to protect from radiations
- Ferrite on antenna to protect other components from radiations
- Embedded T=CL protocol, ISO/IEC 14443 A & B
- compliance from layer 1 to 4. Able to read/write all files/sectors of Mifare, DESFire,...
- High level function set
- High speed communication

A FEW TYPICAL APPLICATIONS

- vending machine,
- card printer,
- access control gate
- enrollement station,
- And more

DETAILED VIEWS





SPRINGCARD & PRO ACTIVE

Established in 2000, **Pro Active** is an innovative provider of smartcard-related solutions, and one of the leaders on the contactless-reader market.

SpringCard distributes **Pro Active**'s contact and contactless products worldwide, under a single brand name.

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TECHNICAL SPECIFICATIONS

| Contactless smartcard interface | | |
|---------------------------------|---|--|
| Standards | ISO/IEC 14443 A and B, T=CL | |
| RFID carrier | 13.56 MHz | |
| Operating distance | typical 5 cm - up to 8cm depending on card and antenna | |
| Card baud rate | 106, 212 or 424 kbit/s | |
| Cara Sada rate | 100/212011211010 | |

Supported cards (partial list):

NXP (Philips) MIFARE Classic & UltraLight

NXP (Philips) DESFIRE, SmartMX, ProX

Infineon SLE66 family

ST MicroElectronics SR, SRI, SRIX families

ASK CTS256/CTS512

Calypso (CD97, CD21, GTML, etc)

And virtually any ISO 14443 A or B compliant smartcard

| Environment and safety | | |
|------------------------|----------------------------|--|
| Operating temperature | -20→+80°C | |
| Storage temperature | -40 →+85°C | |
| MTBF | 500 000 hours | |
| CE mark | EN50082 / EN55022 class B1 | |
| FCC | Part 15 | |
| Other standards | RoHS | |

Safety: EN60950: 2001 ; EN 50364 : 2001, EMC:EN 301 489-03 v1.4.1 ; EN 301 489-01 v1.6.1.

| | Serial Interface | |
|--------------------|---|--|
| RX/TX pins (RS232) | asynchronous serial communication 8 data bits, 1 stop, no flow control 9600, 38400 or 115200bps | |
| Power supply | 5 V DC | |
| Consumption | 150mA typical | |

| Hardware specifications | | |
|-------------------------|--|--|
| Dimensions (LxWxH) | 45 x 69 x 15 mm | |
| Weight | ≈ 14g | |
| Housing | Metalic bonnets on K531 Ferrite shield on antenna | |

ORDER CODES

| PART # | Description |
|-----------|---|
| K531-232 | ISO 14443-A/B OEM module with RS232 antenna |
| 1.001 202 | |

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PRO ACTIVE company with a capital of 227 000 € R.C.S. EVRY B 429 665 482 N.A.F. 722 C VAT #: FR 27 429 665 482 France



